Saim Ibrahim

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EDUCATION

University of Toronto
BSc in Computer Science
2017 - 2021 (expected)
Toronto, ON

LINKS

Github:// **saimibrahim**
LinkedIn:// **saimibrahim**

COURSEWORK

Operating Systems
Web Programming
Software Design
Algorithms and Data Structures
Computer Organization
Software Tools and Systems Programming
Theory of Computation
Probability with Computer Applications

SKILLS

Programming
Javascript • Java • C
Python • LaTeX • HTML
CSS • Verilog • Bash

Frameworks
Node.js • Firebase • React Native
MongoDB • Bootstrap • JavaFX

Software
IntelliJ • PyCharm • Quartus
Adobe Photoshop • Git
Adobe Premiere • Microsoft Word
Microsoft Excel

Operating Systems
Windows • Mac OS • Linux

WORK EXPERIENCE

Software Development Intern (Incoming) | Amazon
June 2020 – August 2020 | Toronto, ON

Software Development Intern | FYT Technologies Inc
May 2019 – August 2019 | Toronto, ON

- worked in **React Native** to develop a platform for in-home workouts, for both iOS and Android
- used Google's **Firebase** on the back-end to provide user authentication, database storage and push notifications
- implemented caching to significantly improve app load times
- added major features including push notifications, video streaming and Chromecast support

DEVELOPMENT PROJECTS

Chalmer's Vision | Python, OpenCV, Tensorflow

- worked with a non-profit organization to develop a computer vision program to detect the occupancy of homeless shelters
- made use of **OpenCV** with a **Tensorflow** object trained with the COCO data-set to detect objects coming in and out of a room
- connected program to existing camera hardware using an RTSP stream
- process documented and showcased at chalmers-vision.herokuapp.com

Textbook Exchange | Bootstrap, Node.js, MongoDB

- made use of the **Bootstrap** library to create an interactive and dynamic webpage
- used **Express** to create **REST API** endpoints for back-end
- connected to **MongoDB** database to handle user data and accounts

SmartCar Connect | Android

- developed an **Android** application which allowed for smart vehicles to be managed remotely
- used the **Smartcar API** to connect to vehicles across different manufacturers
- users were able to locate, lock and unlock their vehicles from their smartphones

Restaurant Manager | Java, JavaFX

- built a robust application to manage the various parts and processes of a restaurant
- allowed for orders to be placed, provided all orders currently in queue, and kept track of stock levels
- implemented the Model-View-Controller framework and used **JavaFX** to build the graphical user interface